

ABSTRACT

Provided are a method for recycling expanded polystyrene, comprising steps of: reducing a volume of the expanded polystyrene 110; dissolving the volume-reduced polystyrene in a solvent 130; and extruding the dissolved expanded polystyrene 160; and a separation and recovery apparatus of a polystyrene solution used in the extruding step. The present invention makes it possible to recycle expanded polystyrene while minimizing the problems of the conventional methods such as difficulty in the removal of foreign matters and the reduction of the molecular weight caused by heating in the extrusion step in the heat melting method, and discharge of the vaporized solvent out of the system together with a gas emitted during the volume-reduction step and the loss of the solvent thereby in the dissolution method.